



Intel® Pentium® 4 Processor

Performance with Purpose

A New Generation of Processing Power

- Improved business application performance on leading Internet technologies
- Flexibility to create media-intensive content
- Headroom for the changing e-Business environment
- The power where users need it most

Benefits for Business PCs

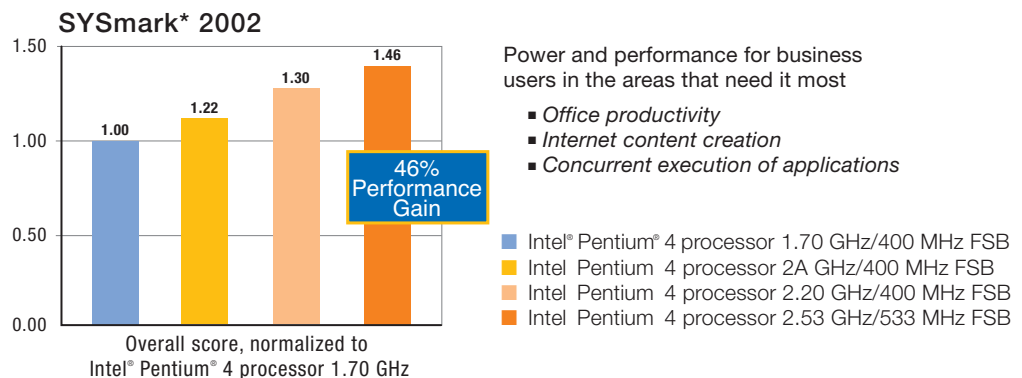
The Intel® Pentium® 4 processor and the Intel® NetBurst™ microarchitecture include a range of new capabilities:

Up to 2.53 GHz Processor Frequencies	Increase in the core frequency of the Intel Pentium 4 processor improves performance for graphics and multitasking.
400 MHz or 533 MHz System Bus	Tripling or quadrupling the data transfer rate of the Intel® Pentium® III processor increases graphical and multimedia performance.
Streaming SIMD Extensions (SSE2)	144 new instructions improve performance for the most challenging applications, such as multimedia, 3D and audio/video.
Rapid Execution Engine	Integer instructions are executed at double the clock speed for greater performance. A 2.53 GHz processor executes integer instructions at 5.0 GHz.
256K or 512K Level 2 Cache	Processors listed at 2 GHz frequency and below are based on a 256K Level 2 cache. Processors listed at 2A GHz and higher frequencies are based on a larger 512K Level 2 cache, providing extra performance for all usage models.
Platform and Memory Choices	Pentium 4 processor-based platforms are available in a broad array of performance levels, supported by the Intel® 845 chipset family with a choice of SDRAM or DDR RAM memory technologies, and by the Intel® 850 chipset family, with RDRAM memory.
Intel Quality and Design	Validated to the most rigorous industry standards for reliability, stability and compatibility.

Office Productivity and Internet Content Creation

“...the addition of a bigger cache to the [Pentium 4 processor] is like adding a nitrous oxide boost to a gasoline engine.”

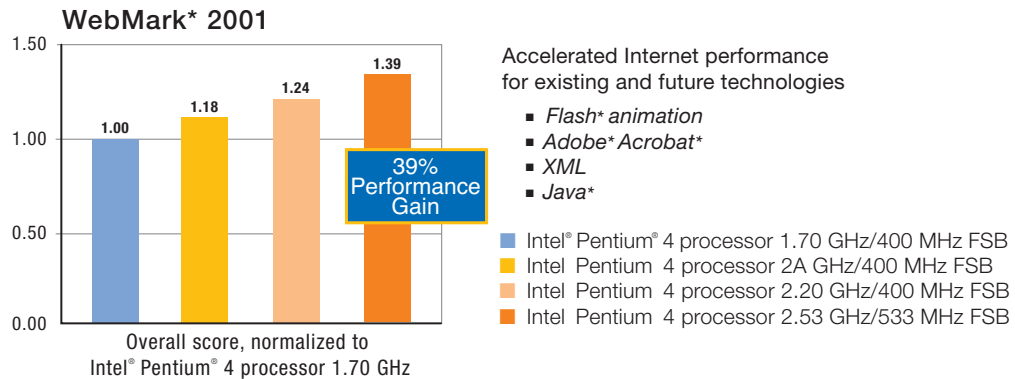
– Loyd Case, *ExtremeTech*, January 7, 2002



Internet Technology Performance

"Intel's newest processor push is said to enhance performance for processing video and audio, encouraging Internet technologies, as well as 3D graphics. We tested the Pentium 4 and it clearly does bring performance to the party."

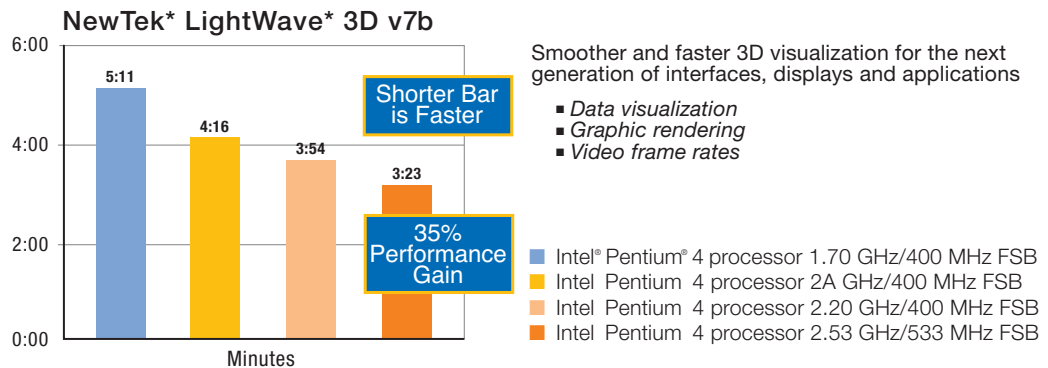
– Mike Fiebus, Principle Analyst Mercury Group, CBS.MarketWatch.com, April 23, 2001



3D Visualization Performance

"3D performance benchmarking... revealed that the new [Pentium 4 processor] is a graphics monster, also recording the highest-ever 3D benchmarking scores of any machine tested."

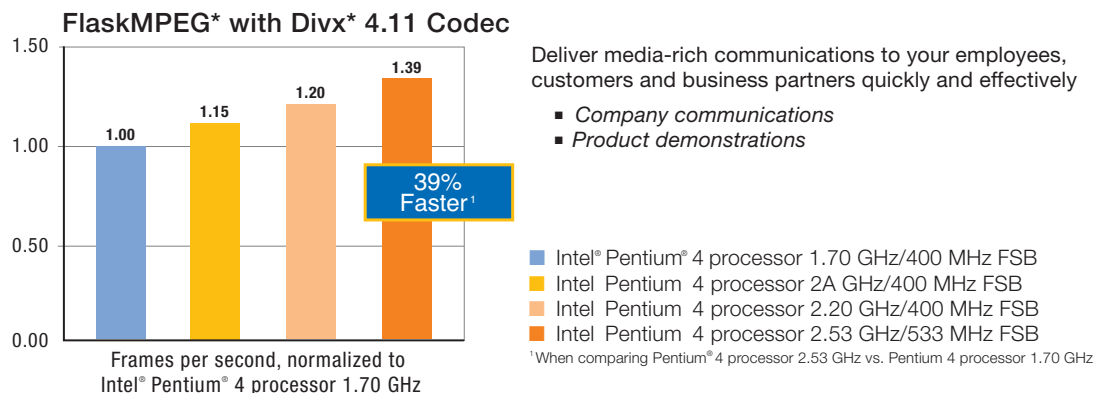
– Spiro Hionis, Australia PC World, February 2002



Video Encoding Performance

"...the P4 machines excelled on some of the graphics tests, and this chip clearly ruled on the streaming audio- and video-encoding tests."

– PC Magazine, CNet.com, April 27, 2001



Configuration Source: Intel. System Configuration: Pentium® 4 processor at 1.70 GHz, 2A GHz, 2.20 GHz – Intel® Desktop Board D850MD, 256 MB PC800 RDRAM* –45 Pentium® 4 processor at 2.53 GHz – Intel® Desktop Board D850MV2, 256 MB PC800 RDRAM –45. **All platforms:** Intel® 850 Chipset Platform – IBM® 30GB ATA-100 DTLA-307030 hard drive, Intel® chipset INF file v3.200.1008, Intel® Application Accelerator Storage Driver v1.01, Leadtek® WinFast/nVidia® GeForce® 3 4x AGP, nVidia Detonator® 4 v21.81 graphics driver, 1024x768 at 16-bit color, DirectX® 8.1, Windows® XP, 100 Mbps LAN; Pro/100+ PCI LAN.

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing.

For more information on performance tests and on the performance of Intel products, reference www.intel.com/procs/perf/limits.htm

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